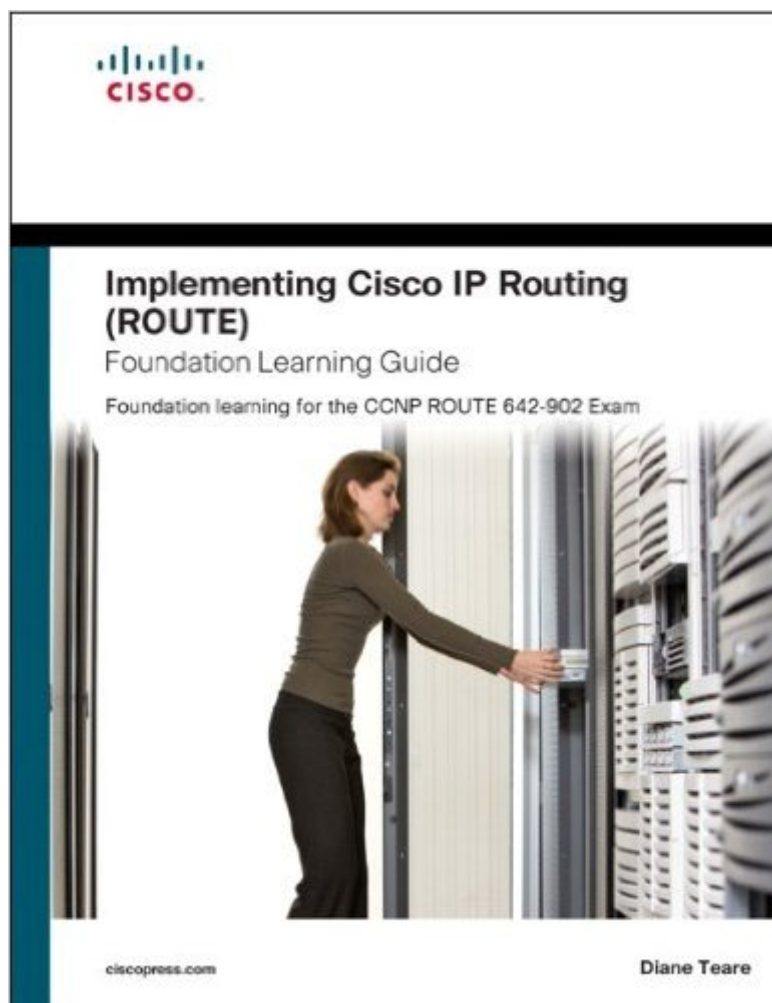


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# Implementing Cisco IP Routing (ROUTE) Foundation Learning Guide: Foundation Learning For The ROUTE 642-902 Exam (Foundation Learning Guides)



## Synopsis

Implementing Cisco IP Routing (ROUTE) Foundation Learning Guide is a Cisco® authorized learning tool for CCNP®/CCDP®/CCIP® preparation. As part of the Cisco Press Foundation Learning Series, this book teaches you how to plan, configure, maintain, and scale a routed network. It focuses on using Cisco routers connected in LANs and WANs typically found at medium-to-large network sites. After completing this book, you will be able to select and implement the appropriate Cisco IOS services required to build a scalable, routed network. • Each chapter opens with the list of topics covered to clearly identify the focus of that chapter. At the end of each chapter, a summary of key concepts for quick study and review questions provide you with an opportunity to assess and reinforce your understanding of the material. Throughout the book there are many configuration examples and sample verification outputs demonstrating troubleshooting techniques and illustrating critical issues surrounding network operation. • Implementing Cisco IP Routing (ROUTE) Foundation Learning Guide is ideal for certification candidates who are seeking a tool to learn all the topics covered in the ROUTE 642-902 exam. • • • • Serves as the official book for the Cisco Networking Academy CCNP ROUTE course • • • • Includes all the content from the e-Learning portion of the Learning@ Cisco ROUTE course • • • • Provides a thorough presentation of complex enterprise network frameworks, architectures, and models, and the process of creating, documenting, and executing an implementation plan • • • • Details Internet Protocol (IP) routing protocol principles • • • • Explores Enhanced Interior Gateway Routing Protocol (EIGRP), Open Shortest Path First (OSPF), and Border Gateway Protocol (BGP) • • • • Examines how to manipulate routing updates and control the information passed between them • • • • Covers routing facilities for branch offices and mobile workers • • • • Investigates IP Version 6 (IPv6) in detail • • • • Presents self-assessment review questions, chapter objectives, and summaries to facilitate effective studying This book is in the Foundation Learning Guide Series. These guides are developed together with Cisco® as the only authorized, self-paced learning tools that help networking professionals build their understanding of networking concepts and prepare for Cisco certification exams. • •

## Book Information

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## Customer Reviews

Five reasons to buy this book: 1. This book is well written, so easy reading. 2. Every topic is fully covered and can be easily understood. 3. Every sample is described in detail with highlighting all significant lines in commands output. 4. All parameters of each command are explained many times (so you don't have to search the book for the first entry). 5. 45\$ for 900+ pages (and nearly 100 pages of online available appendixes) is a great bargain. P.S. From time to time (often in chapter 7) you'll find the phrase "... is beyond the scope of this book". Some can consider this as a drawback, others - as an invitation to learn more.

Picked up this book helping my coworker study for his CCNP. I already have mine, and it seems about a year ago they updated the tests. I'm still shocked that Cisco Press is still publishing the same wrong EIGRP SIA example in multiple books. In Teare's example "EIGRP Query Range", Figure 2-44, she proceeds to provide an example that would cause an SIA event (ignoring SIA-query and SIA-reply packets). Regardless of this oversight, she explains how the neighboring between A and B would fail because: "Router B learns from these queries that none of the remote routers has a path to network 10.1.8.0/24, but it cannot respond that it does not know of a path, because Router B is waiting for Router A to reply to a query. Router A is waiting for either Router C, D, or E to reply to its query, and these remote sites are waiting for Router B to reply to their queries. Because Router B sent out the first query, its SIA timer expires first, and Router B reaches the SIA state for network 10.1.8.0/24 first (in 3 minutes by default). Router B resets its neighbor relationship with Router A." This is incorrect information. Router B can and will respond to Router C, D, E because the assumption that B cannot reply because its current route is active is incorrect -- it will reply, and it will reply with an infinity/unreachable metric. Then C/D/E will reply to A, and the network will

reconverge -- no SIA event. I highly recommend this link for those looking to get a better grasp of EIGRP: Cisco Document ID: 16406. If a router is in active state for a destination and subsequently receives yet another query (not from its previous successor), it immediately responds with its current metric that was set in the moment of transition to the active state (note that this metric must be higher than what it was when the router was passive because a transition into the active state is always a result of distance increase).

There are few chapter breakdowns and they are around 160 pages each. It makes it demotivating to read though technical text page after page when you wanna check off chapters off your reading list and it's such a slog to make it to the end of each chapter. Also Review Q&A at end of chapter would be cool. There is a few pages of key points at the end of each chapter. Good examples and explanations nevertheless, a good prep book.

I just took and passed the 642-902 ROUTE test. I used this book exclusively to prepare. I took the time and effort to methodically work through every chapter and every example. Using dynagen/dynamips (the free GNS router simulator) I simulated as many of the examples as possible. I am certain that kind of preparation helped get me through the test. But, from what I saw of the questions on the test, all the material needed to answer the questions is contained within this book. I have had the misfortune in the past to study from a book that did not adequately cover the material that was on the test. This book did. I have held a CCNP for almost 9 years having first obtained it in 2004. I work for a Consulting company that is a Cisco partner and work with much of this technology on a continual basis. However, there are some technologies that I rarely if ever use. For instance, I have never done anything with IPv6. Much of what I learned came from this book which I found to be an excellent primer for IPv6. And every IPv6 question I saw in the test could be answered by know the material in this text. I've read a complaints that the chapters are too long. The chapter on IPv6 was 200 pages. My response is "So what". That is way we have bookmarks to keep track of where we are in a book. I read the comment about the SIA mistake in the book. I have not gone back to look at that example to validate the error. Probably a valid assessment by the other reviewer. But that is hardly enough of a reason to shy away from this book. If you buy this book and put in the time, you should be able to pass the 642-902 ROUTE test.

Better than the cert prep only books even though this is a cert prep book too. Good depth and I can't remember finding any typos at all. I am CCNP now. Book is very very very long though and I got

burned out towards the end (thanks to it's depth). Not a bad thing though. I made it through BGP and used INE for the rest with their vids. I would for sure buy this book again. It will serve as a great reference down the road also.

As a CCNA, I have read several books ranging from "Network Fundamentals", "Routing Protocols and Concepts", "LAN Switching and Wireless", to "Accessing the WAN". After I read this book it its entirety, studied other materials, and practiced with hands on lab by using GNS3 and my home lab, I passed the CCNP ROUTE exam. This book was perfectly detailed. It didn't go to in-depth, but always provided enough examples and explanations for me to walk away with a new concept and feel confident. I also took the Cisco Netacad course that corresponded to this book, and the book went perfect with the class! Out of all of the Cisco books I have read and studied, I am excited to say that this is a great example of how a Cisco book should be written! All of the simple explanations, configuration examples, and introductions to new topics kept the book interesting and never felt stale. Definitely worth 5 stars! Wish she authored the SWITCH book!

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